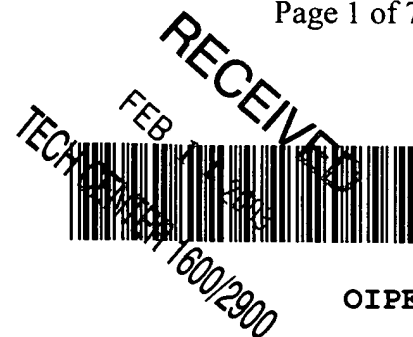


C. Short

RE-RUN

5620



RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/031,158

DATE: 02/05/2003

TIME: 09:02:57

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02052003\J031158.raw

ENTERED

3 <110> APPLICANT: Pastan, Ira
 4 Essand, Magnus
 5 Lee, Byungkook
 6 Vasmatzis, George
 7 Wolfgang, Curt
 8 Brinkmann, Ulrich
 9 The Government of the United States of America
 10 as represented by the Secretary of the
 11 Department of Health and Human Services
 13 <120> TITLE OF INVENTION: T-Cell Receptor Gamma Alternate Reading Frame Protein,
 14 (TARP) and Uses Thereof
 16 <130> FILE REFERENCE: 015280-391200PC
 C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/031,158
 C--> 19 <141> CURRENT FILING DATE: 2003-02-05
 21 <150> PRIOR APPLICATION NUMBER: US 60/157,471
 22 <151> PRIOR FILING DATE: 1999-10-01
 24 <150> PRIOR APPLICATION NUMBER: US 60/143,560
 25 <151> PRIOR FILING DATE: 1999-07-13
 27 <160> NUMBER OF SEQ ID NOS: 33
 29 <170> SOFTWARE: PatentIn Ver. 2.1
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 27
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
 39 <400> SEQUENCE: 1
 40 aacttggaag ggrgaacraa gtcagtc 27
 43 <210> SEQ ID NO: 2
 44 <211> LENGTH: 27
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Artificial Sequence
 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
 51 <400> SEQUENCE: 2
 52 agtactaaaa cgctgtcaaa aacagcc 27
 56 <210> SEQ ID NO: 3
 57 <211> LENGTH: 24
 58 <212> TYPE: DNA
 59 <213> ORGANISM: Artificial Sequence
 61 <220> FEATURE:
 62 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
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68 <210> SEQ ID NO: 4
69 <211> LENGTH: 24
70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
76 <400> SEQUENCE: 4
77 ttgggcagtt ggaacaacct gaaa                24
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 28
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
88 <400> SEQUENCE: 5
89 gataaacaac ttgatgcaga tgtttccc            28
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 28
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
100 <400> SEQUENCE: 6
101 gggaacatc tgcatcaagt tgtttatc            28
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 27
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
112 <400> SEQUENCE: 7
113 ctggagcttt gtttcagcaa ttgaagg            27
117 <210> SEQ ID NO: 8
118 <211> LENGTH: 27
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
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126 ctcaagaaga caaaggtatg ttccagc            27
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130 <211> LENGTH: 25
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
137 <400> SEQUENCE: 9
138 ttatgatttc tctccattgc agcag                25

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146 <220> FEATURE:
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153 <210> SEQ ID NO: 11
154 <211> LENGTH: 24
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
161 <400> SEQUENCE: 11
162 aagctttgtt ccgggaccaa atac 24
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166 <211> LENGTH: 24
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
173 <400> SEQUENCE: 12
174 tacctgtgac aacaagtgtt gttc 24
178 <210> SEQ ID NO: 13
179 <211> LENGTH: 1027
180 <212> TYPE: DNA
181 <213> ORGANISM: Homo sapiens
183 <220> FEATURE:
184 <221> NAME/KEY: CDS
185 <222> LOCATION: (74)..(247)
186 <223> OTHER INFORMATION: Coding region for PS-TCR gamma 1 polypeptide
187 (TARP)
189 <220> FEATURE:
190 <221> NAME/KEY: CDS
191 <222> LOCATION: (247)..(579)
192 <223> OTHER INFORMATION: Coding region for PS-TCR gamma 2 polypeptide (deduced amino
193 acid sequence not displayed along with DNA sequence, due to
194 overlapping CDS's)
197 <400> SEQUENCE: 13
198 gggcaagagt tgggcaaaaa aatcaaggta tttggtcccg gaacaaagct tatcattaca 60
200 gataaacaac ttg atg cag atg ttt ccc cca agc cca cta ttt ttc ttc 109
201 Met Gln Met Phe Pro Ser Pro Leu Phe Phe
202 1 5 10
204 ctt caa ttg ctg aaa caa agc tcc aga agg ctg gaa cat acc ttt gtc 157
205 Leu Gln Leu Leu Lys Gln Ser Ser Arg Arg Leu Glu His Thr Phe Val
206 15 20 25
208 ttc ttg aga aat ttt tcc ctg atg tta tta aga tac att ggg aag aaa 205
209 Phe Leu Arg Asn Phe Ser Leu Met Leu Leu Arg Tyr Ile Gly Lys Lys

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210      30      35      40
212 aga aga gca aca cga ttc tgg gat ccc agg agg gga aca cca      247
213 Arg Arg Ala Thr Arg Phe Trp Asp Pro Arg Arg Gly Thr Pro
214 45      50      55
216 tgaagactaa cgacacatac atgaaattta gctgggttaac ggtgccagaa aagtcaactgg 307
218 acaaagaaca cagatgtatc gtcagacatg agaataataa aaacggagtt gatcaagaaa 367
220 ttatctttcc tccaataaag acggatgtca tcacaatgga tcccaaagac aattgttcaa 427
222 aagatgcaaa tgatacacta ctgctgcagc tcacaaacac ctctgcatat tacatgtacc 487
224 tcctcctgct cctcaagagt gtggtctatt ttgccatcat cacctgctgt ctgcttagaa 547
226 gaacggcttt ctgctgcaat ggagagaaat cataacagac ggtggcaciaa ggaggccatc 607
228 ttttcctcat cggttattgt ccctagaagc gtcttctgag gatctagttg ggctttcttt 667
230 ctgggtttgg gccatttcag ttctcatgtg tgtactattc tatcattatt gtataacggg 727
232 tttcaaacca gtgggcacac agagaacctc actctgtaat aacaatgagg aatagccacg 787
234 gcgatctcca gcaccaatct ctccatgttt tccacagctc ctccagccaa cccaaatagc 847
236 gcctgctata gtgtagacat cctgcggcct ctagccttgt ccctctctta gtgttcttta 907
238 atcagataac tgcttgaag cctttcatth tacacgccct gaagcagtct tctttgctag 967
240 ttgaattatg tgggtgtgtt ttccgtaata agcaaaataa atttaaaaaa atgaaaagtt 1027
243 <210> SEQ ID NO: 14
244 <211> LENGTH: 58
245 <212> TYPE: PRT
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 14
249 Met Gln Met Phe Pro Pro Ser Pro Leu Phe Phe Phe Leu Gln Leu Leu
250 1      5      10      15
252 Lys Gln Ser Ser Arg Arg Leu Glu His Thr Phe Val Phe Leu Arg Asn
253      20      25      30
255 Phe Ser Leu Met Leu Leu Arg Tyr Ile Gly Lys Lys Arg Arg Ala Thr
256      35      40      45
258 Arg Phe Trp Asp Pro Arg Arg Gly Thr Pro
259 50      55
262 <210> SEQ ID NO: 15
263 <211> LENGTH: 111
264 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 15
268 Met Lys Thr Asn Asp Thr Tyr Met Lys Phe Ser Trp Leu Thr Val Pro
269 1      5      10      15
271 Glu Lys Ser Leu Asp Lys Glu His Arg Cys Ile Val Arg His Glu Asn
272      20      25      30
274 Asn Lys Asn Gly Val Asp Gln Glu Ile Ile Phe Pro Pro Ile Lys Thr
275      35      40      45
277 Asp Val Ile Thr Met Asp Pro Lys Asp Asn Cys Ser Lys Asp Ala Asn
278 50      55      60
280 Asp Thr Leu Leu Leu Gln Leu Thr Asn Thr Ser Ala Tyr Tyr Met Tyr
281 65      70      75      80
283 Leu Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala Ile Ile Thr Cys
284      85      90      95
286 Cys Leu Leu Arg Arg Thr Ala Phe Cys Cys Asn Gly Glu Lys Ser
287      100      105      110

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291 <210> SEQ ID NO: 16
292 <211> LENGTH: 16
293 <212> TYPE: PRT
294 <213> ORGANISM: Homo sapiens
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Partial amino acid sequence of TARP (residues
298     42-57)
300 <400> SEQUENCE: 16
301 Gly Lys Lys Arg Arg Ala Thr Arg Phe Trp Asp Pro Arg Arg Gly Thr
302   1           5           10           15
305 <210> SEQ ID NO: 17
306 <211> LENGTH: 16
307 <212> TYPE: PRT
308 <213> ORGANISM: Dictyostelium discoideum
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Partial amino acid sequence of Tup1 (dTup,
312     residues 521-536)
314 <400> SEQUENCE: 17
315 Gly Ser Lys Asp Arg Ser Val Gln Phe Trp Asp Pro Arg Asn Gly Thr
316   1           5           10           15
319 <210> SEQ ID NO: 18
320 <211> LENGTH: 16
321 <212> TYPE: PRT
322 <213> ORGANISM: Saccharomyces cerevisiae
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Partial amino acid sequence of Tup1 (yTup1,
326     residues 626-660)
328 <400> SEQUENCE: 18
329 Gly Ser Lys Asp Arg Gly Val Leu Phe Trp Asp Lys Lys Ser Gly Asn
330   1           5           10           15
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334 <211> LENGTH: 41
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
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346 <210> SEQ ID NO: 20
347 <211> LENGTH: 39
348 <212> TYPE: DNA
349 <213> ORGANISM: Artificial Sequence
351 <220> FEATURE:
352 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
354 <400> SEQUENCE: 20
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358 <210> SEQ ID NO: 21
359 <211> LENGTH: 36
360 <212> TYPE: DNA

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